

ABSTRACT

SYSTEM, METHOD, AND APPARATUS FOR MATCHING HARNESSES OF CONDUCTORS WITH APERTURES IN CONNECTORS

[0032] A system for assembling wire harnesses with their connectors utilizes a compact computer-based system that is linked to an engineering data base. The data base contains component information, such as harness number, associated wires, and pin location to connector. An integrated tool contains a light panel that is linked to a dummy connector. The dummy connector has a mating end for the connector being pinned. The connector is mated to the dummy connector such that pin holes in the connector align with the light rods in the dummy connector. The wires are identified by voice recognition, bar code, and/or optical character recognition. Once a wire has been identified, the system illuminates the appropriate pin location on the selected connector, thereby providing a visible point of light in which the selected wire is to be terminated.